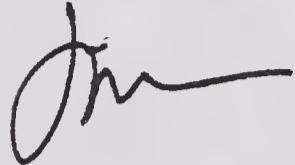


## MEMORANDUM

TO : Participants and near-participants in the "1993" SERC winter bird count

FROM : Jim Lynch 

RE : Results of the count

DATE : 3 January 1994

This winter's count took place between 07:30 and 16:45 hrs on Sunday, 2 January 1994. After a week of snow and unseasonably cold temperatures that began on Christmas night, Sunday's weather proved excellent. Rain the previous evening had washed away much of the snow deposited by earlier storms, and early morning temperatures were just below freezing under partly cloudy skies. Some snow remained on the ground in sheltered areas, but depth was generally less than 2 inches. Most waterways were frozen, resulting in unusually low counts for ducks. The weather steadily warmed over the course of the count, reaching a high of ca. 50° F by mid-afternoon. Cloud cover fluctuated repeatedly from bright sunshine to overcast.

Volunteer turnout was light this year, with only 10 participants on hand. As in previous years, we split into four groups, each of which searched a different section of the lower Rhode River watershed (i.e., the area east of Muddy Creek Road between Camp Letts and Ivy Neck, including adjacent waterways). The SERC count area encompasses approximately 70 km<sup>2</sup>, about 5% of the size of "standard" 1,810 km<sup>2</sup> Audubon Christmas count circles.

Despite the low turnout, the count yielded a near-record 68 species (70 species is the all-time record species total, reached last year with 17 people counting). We tallied three species that had never turned up on previous SERC winter counts (Hooded Merganser, Loggerhead Shrike, Savannah Sparrow), and repeated last year's records for several species that hadn't been encountered on SERC winter counts since the mid 1980's (Bald Eagle, Great Horned Owl, Gray Catbird). As usual, a few species known to be present in the count area (e.g., Bobwhite, Barred Owl) were missed, but overall the coverage this year was surprisingly good.

Thanks for making this year's count such a success. I hope to see all of you again for next year's effort!

cc: Ed Balinsky, Antonia Bava, Maria Coughlin, Liza Hamill, Mark Lynch, Ray Madden, Dan Niven, Ana Spector, Kirk Swenson, Greg Ruiz,

Winter of 1993-94

1993-94

3  
Results of 1993 SERC winter bird count (count conducted 3 Jan 1994)

Number of observers: 10 Number of parties: 4 Party/hours: ca. 22 Km on foot: ca. 30  
Km in car: ca. 15 Total km: ca. 45 Weather: Partly cloudy to sunny; Temp: 30-50° F; Wind: calm to light; Discontinuous cover of soft snow (depth < 2 in.); creeks and inlets frozen  
Survey sectors: 1 - Camp Letts S. to Contee's Wharf Rd; 2 - Contee's Wharf Road S. to Muddy Cr.; 3 - Muddy Cr. S. to Cumberstone Rd.; 4 - Cumberstone Rd. S. to West R.

| Species                      | No. of individuals in sector |    |     |     | Total Indiv. |
|------------------------------|------------------------------|----|-----|-----|--------------|
|                              | 1                            | 2  | 3   | 4   |              |
| 1. Common Loon               |                              |    |     | 1   | 1            |
| 2. Great Blue Heron          | 3                            | 3  | 1   | 1   | 8            |
| 3. Tundra Swan               | 6                            |    | 10  | 4   | 20           |
| 4. Canada Goose              | 874                          | 50 | 150 | 9   | 1093         |
| 5. Mallard                   | 5                            | 2  | 25  | 2   | 34           |
| 6. Black Duck                | 22                           | 5  | 40  | 5   | 72           |
| 7. Canvasback                |                              |    |     | 11  | 11           |
| 8. Lesser Scaup              |                              |    |     | 3   | 3            |
| 9. Common Goldeneye          | 1                            |    | 1   | 2   | 4            |
| 10. Bufflehead               | 48                           | 1  | 19  | 133 | 201          |
| 11. Ruddy Duck               |                              |    |     | 4   | 4            |
| 12. Hooded Merganser         |                              |    |     | 6   | 6            |
| 13. Turkey Vulture           | 3                            | 6  | 5   | 3   | 17           |
| 14. Black Vulture            | 9                            | 27 | 11  |     | 47           |
| 15. Bald Eagle               |                              |    |     | 3   | 3            |
| 16. Sharp-shinned Hawk       |                              | 1  | 1   |     | 2            |
| 17. Red-tailed Hawk          | 1                            |    | 3   | 2   | 6            |
| 18. Red-should. Hawk         | 2                            | 2  |     |     | 4            |
| 19. American Kestrel         | 1                            |    | 1   |     | 2            |
| 20. Killdeer                 |                              |    |     | 1   | 1            |
| 21. Herring Gull             | 3                            | 5  |     | 5   | 13           |
| 22. Ring-billed Gull         | 18                           | 1  | 12  |     | 31           |
| 23. Gr. Black-b. Gull        |                              |    | 3   | 1   | 4            |
| 24. Mourning Dove            | 6                            |    | 15  |     | 21           |
| 25. Great Horned Owl         |                              |    | 1   |     | 1            |
| 26. Belted Kingfisher        | 2                            | 1  | 2   |     | 5            |
| 27. Common Flicker           | 20                           | 2  | 15  | 4   | 41           |
| 28. Pileat. Woodpecker       | 1                            |    | 2   |     | 3            |
| 29. Yellow-bellied Sapsucker | 1                            | 2  | 4   |     | 7            |
| 30. Hairy Woodpecker         | 1                            | 3  | 5   | 1   | 10           |
| 31. Downy Woodpecker         | 9                            | 7  | 8   |     | 24           |
| 32. Red-bellied Woodpecker   | 8                            | 7  | 12  | 6   | 33           |
| 33. Common Crow              | 23                           | 2  | 29  | 35  | 89           |
| 34. Fish Crow                | 2                            |    | 1   |     | 3            |
| 35. Blue Jay                 | 16                           | 3  | 20  | 12  | 51           |
| 36. Loggerhead Shrike        |                              |    |     | 1   | 1            |
| 37. Carolina Chickadee       | 23                           | 8  | 20  | 7   | 58           |
| 38. Tufted Titmouse          | 12                           | 6  | 14  | 6   | 38           |

3  
Results of 1992 SERC winter bird count (continued - p.2)

| Species                | No. of individuals in sector |    |     |    | Total Indiv. |
|------------------------|------------------------------|----|-----|----|--------------|
|                        | 1                            | 2  | 3   | 4  |              |
| 39. White-br. Nuthatch |                              | 2  | 1   |    | 3            |
| 40. Brown Creeper      |                              | 1  | 1   | 2  | 4            |
| 41. Carolina Wren      | 10                           | 4  | 19  | 2  | 35           |
| 42. Marsh Wren         |                              |    | 3   |    | 3            |
| 43. Winter Wren        |                              | 1  |     | 3  | 4            |
| 44. N. Mockingbird     | 5                            | 2  | 4   | 4  | 15           |
| 45. Gray Catbird       |                              |    |     | 2  | 2            |
| 46. Brown Thrasher     |                              |    | 1   | 1  | 2            |
| 47. American Robin     | 6                            | 1  | 1   | 1  | 9            |
| 48. Hermit Thrush      |                              |    | 3   | 1  | 4            |
| 49. Eastern Bluebird   | 9                            |    | 1   | 25 | 35           |
| 50. Golden-cr. Kinglet | 4                            | 6  | 8   | 2  | 20           |
| 51. Cedar Waxwing      |                              |    | 19  | 3  | 22           |
| 52. European Starling  | 24                           | 7  | 95  | 7  | 133          |
| 53. Y.-rumped Warbler  | 6                            | 1  | 1   | 1  | 9            |
| 54. House Sparrow      |                              |    | 5   |    | 5            |
| 55. Red-w. Blackbird   | 10                           |    | 30  |    | 40           |
| 56. E. Meadowlark      |                              |    | 5   |    | 5            |
| 57. Common Grackle     |                              |    | 2   |    | 2            |
| 58. N. Cardinal        | 12                           | 12 | 30  | 15 | 69           |
| 59. House Finch        | 1                            | 4  | 8   |    | 13           |
| 60. American Goldfinch | 3                            | 2  | 12  | 1  | 18           |
| 61. Rufous-s. Towhee   | 2                            | 1  | 3   |    | 6            |
| 62. Dark-eyed Junco    | 79                           | 7  | 12  | 1  | 99           |
| 63. Field Sparrow      | 10                           |    |     | 26 | 36           |
| 64. White-thr. Sparrow | 24                           | 25 | 140 | 3  | 192          |
| 65. Wh.-cr. Sparrow    |                              |    |     | 1  | 1            |
| 66. Swamp Sparrow      |                              | 6  | 19  |    | 25           |
| 67. Song Sparrow       | 6                            | 10 | 36  | 12 | 64           |
| 68. Savannah Sparrow   |                              |    |     | 1  | 1            |
| Number of species      | 43                           | 37 | 54  | 46 | 68           |





SERC Winter Bird Checklist

Observers \_\_\_\_\_

SECTOR

| Species                | Individuals  | 1 | 2 | 3 | 4 | Σ |
|------------------------|--------------|---|---|---|---|---|
|                        |              | 1 | 2 | 3 | 4 | Σ |
| Great Blue Heron       | 33118        |   |   |   |   |   |
| Tundra Swan            | 6010420      |   |   |   |   |   |
| Canada Goose           | 874515091093 |   |   |   |   |   |
| Mallard                | 5225234      |   |   |   |   |   |
| Black Duck             | 22540572     |   |   |   |   |   |
| Wood Duck              | 00000        |   |   |   |   |   |
| Redhead                | 00000        |   |   |   |   |   |
| Canvasback             | 0001111      |   |   |   |   |   |
| Lesser Scaup           | 00033        |   |   |   |   |   |
| Comm. Goldeneye        | 10124        |   |   |   |   |   |
| Bufflehead             | 48119133201  |   |   |   |   |   |
| Ruddy Duck             | 00044        |   |   |   |   |   |
| Red-br. Merganser      | 00000        |   |   |   |   |   |
| Turkey Vulture         | 365319       |   |   |   |   |   |
| Black Vulture          | 92711047     |   |   |   |   |   |
| Bald Eagle             | 00033        |   |   |   |   |   |
| Sharp-shinned Hawk     | 01102        |   |   |   |   |   |
| Red-tailed Hawk        | 10326        |   |   |   |   |   |
| Red-shouldered Hawk    | 22004        |   |   |   |   |   |
| American Kestrel       | 10102        |   |   |   |   |   |
| Bobwhite               | 00000        |   |   |   |   |   |
| Kildeer                | 00011        |   |   |   |   |   |
| Herring Gull           | 20608        |   |   |   |   |   |
| Ring-billed Gull       | 18112031     |   |   |   |   |   |
| Gr. Black-backed Gull  | 00314        |   |   |   |   |   |
| Mourning Dove          | 6015021      |   |   |   |   |   |
| Great Horned Owl       | 00101        |   |   |   |   |   |
| Barred Owl             | 00000        |   |   |   |   |   |
| Belted Kingfisher      | 21205        |   |   |   |   |   |
| Common Flicker         | 20215441     |   |   |   |   |   |
| Pileated Woodpecker    | 10203        |   |   |   |   |   |
| Y.-bellied Sapsucker   | 12407        |   |   |   |   |   |
| Hairy Woodpecker       | 135110       |   |   |   |   |   |
| Downy Woodpecker       | 978024       |   |   |   |   |   |
| Red-bellied Woodpecker | 8712633      |   |   |   |   |   |
| Common Crow            | 232293589    |   |   |   |   |   |
| Fish Crow              | 20103        |   |   |   |   |   |
| Blue Jay               | 11613201251  |   |   |   |   |   |

Date 2 Jan 84 Sector 1-4

Party Size \_\_\_\_\_ Party Hrs \_\_\_\_\_

Miles: Foot \_\_\_\_\_ Car \_\_\_\_\_ Boat \_\_\_\_\_ Total \_\_\_\_\_

| Species               | Individuals       | 1 | 2 | 3 | 4 | Σ |
|-----------------------|-------------------|---|---|---|---|---|
|                       |                   | 1 | 2 | 3 | 4 | Σ |
| Carolina Chickadee    | 23820758          |   |   |   |   |   |
| Tufted Titmouse       | 12614438          |   |   |   |   |   |
| White-br. Nuthatch    | 02103             |   |   |   |   |   |
| Red-br. Nuthatch      | 00000             |   |   |   |   |   |
| Brown Creeper         | 01124             |   |   |   |   |   |
| Carolina Wren         | 10419235          |   |   |   |   |   |
| Long-b. Marsh Wren    | 00303             |   |   |   |   |   |
| Winter Wren           | 01034             |   |   |   |   |   |
| Mockingbird           | 524415            |   |   |   |   |   |
| Gray Catbird          | 00022             |   |   |   |   |   |
| American Robin        | 611119            |   |   |   |   |   |
| Hermit Thrush         | 00314             |   |   |   |   |   |
| Eastern Bluebird      | 9012535           |   |   |   |   |   |
| Golden-cr. Kinglet    | 468220            |   |   |   |   |   |
| Ruby-cr. Kinglet      | 00000             |   |   |   |   |   |
| Cedar Waxwing         | 0049322           |   |   |   |   |   |
| European Starling     | 247957133         |   |   |   |   |   |
| Yellow-rumped Warbler | 611119            |   |   |   |   |   |
| House Sparrow         | 00505             |   |   |   |   |   |
| Red-winged Blackbird  | 10030040          |   |   |   |   |   |
| Eastern Meadowlark    | 00505             |   |   |   |   |   |
| Common Grackle        | 00202             |   |   |   |   |   |
| Brown-headed Cowbird  | 00000             |   |   |   |   |   |
| Northern Cardinal     | 1212301569        |   |   |   |   |   |
| Purple Finch          | 00000             |   |   |   |   |   |
| House Finch           | 148013            |   |   |   |   |   |
| Am. Goldfinch         | 3212118           |   |   |   |   |   |
| Ruf.-sided Towhee     | 21304             |   |   |   |   |   |
| Dark-eyed Junco       | 79712199          |   |   |   |   |   |
| Field Sparrow         | 10002636          |   |   |   |   |   |
| Wh.-throated Sparrow  | 24251403192       |   |   |   |   |   |
| Swamp Sparrow         | 0649025           |   |   |   |   |   |
| Song Sparrow          | 610361264         |   |   |   |   |   |
| HOODED MEGANDEER      | 000064            |   |   |   |   |   |
| LOGLER HEADSHRIKE     | 00011             |   |   |   |   |   |
| BROWN THRASHER        | 00112             |   |   |   |   |   |
| COMMON LOON           | 00011             |   |   |   |   |   |
| SAVANNAH SPARROW      | 00011             |   |   |   |   |   |
| <b>Σ species</b>      | <b>4337544668</b> |   |   |   |   |   |

Rare or sporadic at SERC in winter: Comm. Loon, Red-thr. Loon, Pied-b. Grebe, Horned Grebe, Pintail, Am. Widgeon, Green-w. Teal, Cooper's Hawk, Am. Coot, Am. Woodcock, Comm. Snipe, Rock Dove, Semi-palmated Plover, Screech Owl, Red-headed Woodpecker, E. Phoebe, Evening Grosbeak, Pine Siskin, Wh.-crowned Sparrow, Fox Sparrow, Chipping Sparrow, Tree Sparrow

WHITE CROWN  
SPARROW

|   |   |   |   |   |
|---|---|---|---|---|
| 0 | 0 | 0 | 1 | 1 |
|---|---|---|---|---|

Area 2

Area 4

3

0  
0

WALRUS } 3 males 180  
BLACK DUCK )

Small BURRARD } 500  
or  
Ruddy Head )

Hooded Murrelet }  
3 female }  
3 male )

CUBS 10 Zest

no unknown

874 49  
209 19  
1083 201

6 Zone 3  
Zone 3

1

15  
18

52  
140

36  
11

16  
4

31

88  
6

80  
19

24  
45  
69

12  
39  
1

3A  
95  
133

## SERC Winter Bird Checklist

Observers \_\_\_\_\_

Date \_\_\_\_\_ Sector \_\_\_\_\_  
Party Size \_\_\_\_\_ Party Hrs \_\_\_\_\_  
Miles: Foot \_\_\_\_\_ Car \_\_\_\_\_ Boat \_\_\_\_\_ Total \_\_\_\_\_

| Species                | Individuals | Species              | Individuals |
|------------------------|-------------|----------------------|-------------|
| Great Blue Heron       |             | Carolina Chickadee   |             |
| Tundra Swan            |             | Tufted Titmouse      |             |
| Canada Goose           |             | White-br. Nuthatch   |             |
| Mallard                |             | Red-br. Nuthatch     |             |
| Black Duck             |             | Brown Creeper        |             |
| Wood Duck              |             | Carolina Wren        |             |
| Redhead                |             | Long-b. Marsh Wren   |             |
| Canvasback             |             | Winter Wren          |             |
| Lesser scaup           |             | Mockingbird          |             |
| Comm. Goldeneye        |             | Gray Catbird         |             |
| Bufflehead             |             | American Robin       |             |
| Ruddy Duck             |             | Hermit Thrush        |             |
| Red-br. Merganser      |             | Eastern Bluebird     |             |
| Turkey Vulture         |             | Golden-cr. Kinglet   |             |
| Black Vulture          |             | Ruby-cr. Kinglet     |             |
| Bald Eagle             |             | Cedar Waxwing        |             |
| Sharp-shinned Hawk     |             | European Starling    |             |
| Red-tailed Hawk        |             | Yell.-rumped Warbler |             |
| Red-shouldered Hawk    |             | House Sparrow        |             |
| American Kestrel       |             | Red-winged Blackbird |             |
| Bobwhite               |             | Eastern Meadowlark   |             |
| Kildeer                |             | Common Grackle       |             |
| Herring Gull           |             | Brown-headed Cowbird |             |
| Ring-billed Gull       |             | Northern Cardinal    |             |
| Gr. Black-backed Gull  |             | Purple Finch         |             |
| Mourning Dove          |             | House Finch          |             |
| Great Horned Owl       |             | Am. Goldfinch        |             |
| Barred Owl             |             | Ruf.-sided Towhee    |             |
| Belted Kingfisher      |             | Dark-eyed Junco      |             |
| Common Flicker         |             | Field Sparrow        |             |
| Pileated Woodpecker    |             | Wh.-throated Sparrow |             |
| Y.-bellied Sapsucker   |             | Swamp Sparrow        |             |
| Hairy Woodpecker       |             | Song Sparrow         |             |
| Downy Woodpecker       |             |                      |             |
| Red-bellied Woodpecker |             |                      |             |
| Common Crow            |             |                      |             |
| Fish Crow              |             |                      |             |
| Blue Jay               |             |                      |             |

Rare or sporadic at SERC in winter: Comm. Loon, Red-thr. Loon, Pied-b. grebe, Horned Grebe, Pintail, Am. Widgeon, Green-w. Teal, Cooper's Hawk, Am. Coot, Am. Woodcock, Comm. Snipe, Rock Dove, Semi-palmated Plover, Screech Owl, Red-headed Woodpecker, E. Phoebe, Evening Grosbeak, Pine Siskin, Wh.-crowned Sparrow, Fox Sparrow, Chipping Sparrow, Tree Sparrow

## SERC Winter Bird Checklist

Observers Greg Ruiz ; Anna Spector

Date 1-2-94 Sector 2  
 Party Size 2 Party Hrs 3 1/2  
 Miles: Foot 3 Car   Boat   Total 3

| Species                | Individuals | Species                 | Individuals |
|------------------------|-------------|-------------------------|-------------|
| Great Blue Heron       | <u>2</u>    | Carolina Chickadee      | <u>3</u>    |
| Tundra Swan            |             | Tufted Titmouse         | <u>2</u>    |
| Canada Goose           |             | White-br. Nuthatch      |             |
| Mallard                | <u>2</u>    | Red-br. Nuthatch        |             |
| Black Duck             |             | Brown Creeper           |             |
| Wood Duck              |             | Carolina Wren           |             |
| Redhead                |             | Long-b. Marsh Wren      |             |
| Canvasback             |             | Winter Wren             |             |
| Lesser scaup           |             | Mockingbird             |             |
| Comm. Goldeneye        |             | Gray Catbird            |             |
| Bufflehead             | <u>1</u>    | American Robin          | <u>1</u>    |
| Ruddy Duck             |             | Hermit Thrush           |             |
| Red-br. Merganser      |             | Eastern Bluebird        |             |
| Turkey Vulture         | <u>2</u>    | Golden-cr. Kinglet      | <u>2</u>    |
| Black Vulture          |             | Ruby-cr. Kinglet        |             |
| Bald Eagle             |             | Cedar Waxwing           |             |
| Sharp-shinned Hawk     |             | European Starling       | <u>1</u>    |
| Red-tailed Hawk        |             | Yell.-rumped Warbler    | <u>1</u>    |
| Red-shouldered Hawk    |             | House Sparrow           |             |
| American Kestrel       |             | Red-winged Blackbird    |             |
| Bobwhite               |             | Eastern Meadowlark      |             |
| Kildeer                |             | Common Grackle          |             |
| Herring Gull           |             | Brown-headed Cowbird    |             |
| Ring-billed Gull       | <u>1</u>    | Northern Cardinal       | <u>4</u>    |
| Gr. Black-backed Gull  |             | Purple Finch            |             |
| Mourning Dove          |             | House Finch             |             |
| Great Horned Owl       |             | Am. Goldfinch           | <u>2</u>    |
| Barred Owl             |             | Ruf.-sided Towhee       |             |
| Belted Kingfisher      | <u>1</u>    | Dark-eyed Junco         |             |
| Common Flicker         |             | Field Sparrow           |             |
| Pileated Woodpecker    |             | Wh.-throated Sparrow    | <u>1</u>    |
| Y.-bellied Sapsucker   |             | Swamp Sparrow           |             |
| Hairy Woodpecker       | <u>3</u>    | Song Sparrow            |             |
| Downy Woodpecker       | <u>3</u>    | <u>Hooded Merganser</u> | <u>6</u>    |
| Red-bellied Woodpecker | <u>3</u>    |                         |             |
| Common Crow            |             |                         |             |
| Fish Crow              |             |                         |             |
| Blue Jay               | <u>1</u>    |                         |             |

Rare or sporadic at SERC in winter: Comm. Loon, Red-thr. Loon, Pied-b. grebe, Horned Grebe, Pintail, Am. Widgeon, Green-w. Teal, Cooper's Hawk, Am. Coot, Am. Woodcock, Comm. Snipe, Rock Dove, Semi-palmated Plover, Screech Owl, Red-headed Woodpecker, E. Phoebe, Evening Grosbeak, Pine Siskin, Wh.-crowned Sparrow, Fox Sparrow, Chipping Sparrow, Tree Sparrow

79  
 54  
 13 3

### SERC Winter Bird Checklist

Observers Greg Ruiz, Marie Cogland, Michael

Date 1/2/93 Sector 4  
 Party Size 3 Party Hrs 4.5  
 Miles: Foot 5 Car - Boat - Total 5

| Species                  | Individuals |
|--------------------------|-------------|
| ① Great Blue Heron       | 1           |
| ④ Tundra Swan            | 3+4         |
| ⑥ Canada Goose           | 1           |
| ② Mallard                | 2(2)        |
| ⑤ Black Duck             | 2(5)        |
| Wood Duck                |             |
| Redhead                  |             |
| ⑪ Canvasback             | 8+3         |
| ③ Lesser scaup           | 1+3         |
| ② Comm. Goldeneye        | 2(2)        |
| ⑬ Bufflehead             | 65+14 → 52  |
| ④ Ruddy Duck             | 4(2)        |
| Red-br. Merganser        |             |
| ③ Turkey Vulture         | 1+1         |
| Black Vulture            |             |
| ③ Bald Eagle             | 2+1         |
| Sharp-shinned Hawk       |             |
| ② Red-tailed Hawk        | 1           |
| Red-shouldered Hawk      |             |
| American Kestrel         |             |
| Bobwhite                 |             |
| ① Killdeer               | 1           |
| Herring Gull             |             |
| Ring-billed Gull         |             |
| ① Gr. Black-backed Gull  | 1           |
| Mourning Dove            |             |
| Great Horned Owl         |             |
| Barred Owl               |             |
| Belted Kingfisher        |             |
| ④ Common Flicker         | 1/1         |
| Pileated Woodpecker      |             |
| Y.-bellied Sapsucker     |             |
| ① Hairy Woodpecker       | 1           |
| Downy Woodpecker         |             |
| ⑥ Red-bellied Woodpecker | 2+3         |
| ⑮ Common Crow            | 11 1+14 6F3 |
| Fish Crow                |             |
| ⑫ Blue Jay               | 3+1         |

| Species                | Individuals      |
|------------------------|------------------|
| ⑦ Carolina Chickadee   | 4                |
| ⑥ Tufted Titmouse      | 1                |
| White-br. Nuthatch     |                  |
| Red-br. Nuthatch       |                  |
| ② Brown Creeper        | 2                |
| ② Carolina Wren        | 1                |
| Long-b. Marsh Wren     |                  |
| ③ Winter Wren          | 1                |
| ④ Mockingbird          | 1+1              |
| ③ Gray Catbird         | 1/1              |
| ① American Robin       | 1                |
| ① Hermit Thrush        | 1                |
| ⑯ Eastern Bluebird     | 25               |
| ② Golden-cr. Kinglet   | 2                |
| Ruby-cr. Kinglet       |                  |
| ③ Cedar Waxwing        | 3                |
| ⑦ European Starling    | 6                |
| ① Yell.-rumped Warbler | 1                |
| House Sparrow          |                  |
| Red-winged Blackbird   |                  |
| Eastern Meadowlark     |                  |
| Common Grackle         |                  |
| Brown-headed Cowbird   |                  |
| ⑯ Northern Cardinal    | 1+3 2(6) 1 ⑧ 4+2 |
| Purple Finch           |                  |
| House Finch            |                  |
| ① Am. Goldfinch        | 1                |
| Ruf.-sided Towhee      |                  |
| ① Dark-eyed Junco      | 1                |
| ⑯ Field Sparrow        | 14, 9, 3 26      |
| ③ Wh.-throated Sparrow | 2                |
| Swamp Sparrow          |                  |
| ⑫ Song Sparrow         | 4 8              |
| ① Loggerhead Shrike    | 1                |
| ① Brown Thrasher       | 1                |
| ① Savanna Sparrow      | 1                |

Rare or sporadic at SERC in winter: Comm. Loon, Red-thr. Loon, Pied-b. grebe, Horned Grebe, Pintail, Am. Widgeon, Green-w. Teal, Cooper's Hawk, Am. Coot, Am. Woodcock, Comm. Snipe, Rock Dove, Semi-palmated Plover, Screech Owl, Red-headed Woodpecker, E. Phoebe, Evening Grosbeak, Pine Siskin, Wh.-crowned Sparrow, Fox Sparrow, Chipping Sparrow, Tree Sparrow

7 aren't

## SERC Winter Bird Checklist

Dan Nevin, Anna Speck  
Observers Kirk Swenson, Ray

① Dan, Kirk, Anna, Fay 7:30 - 12:30

~~Kirk Bay~~ ② Kirk Bay 1:00 - 2:00

~~✓~~ Dän ③ Kirke 2:00 - 4:30

Date 1-2-94 Sector -  
P.M. 31 P.M. 11

Party Size \_\_\_\_\_ Party Hrs \_\_\_\_\_  
Mil. \$ \_\_\_\_\_ Gen. Recs. \_\_\_\_\_ Total \_\_\_\_\_

Miles: Foot    Car    Boat   ; Total

#### Individuals

| Species                | Individuals | Species              | Individuals |
|------------------------|-------------|----------------------|-------------|
| Great Blue Heron       | 2 1/1       | Carolina Chickadee   | 25 20/5     |
| Tundra Swan            | 10          | Tufted Titmouse      | 18 14/4     |
| Canada Goose           | 125, 23/50  | White-br. Nuthatch   | 3 1/2       |
| Mallard                | 20 + 5      | Red-br. Nuthatch     |             |
| Black Duck             | 40 4        | Brown Creeper        | 2 1/1       |
| Wood Duck              |             | Carolina Wren        | 23 10/4     |
| Redhead                |             | Long-b. Marsh Wren   | 3           |
| Canvasback             |             | Winter Wren          | 1 0/1       |
| Lesser Scaup           |             | Mockingbird          | 6 4/2       |
| Comm. Goldeneye        | 1           | Gray Catbird         |             |
| Bufflehead             | 19          | American Robin       | 1           |
| Ruddy Duck             |             | Hermit Thrush        | 3           |
| Red-br. Merganser      |             | Eastern Bluebird     | 1           |
| Turkey Vulture         | 11 5/6      | Golden-cr. Kinglet   | 12 8/4      |
| Black Vulture          | 27 1/27     | Ruby-cr. Kinglet     |             |
| Bald Eagle             |             | Cedar Waxwing        | 19 9/5/6    |
| Sharp-shinned Hawk     | 2 1/1       | European Starling    | 101         |
| Red-tailed Hawk        | 3           | Yell.-rumped Warbler | 1           |
| Red-shouldered Hawk    | 2 0/2       | House Sparrow        | 5           |
| American Kestrel       | 1           | Red-winged Blackbird | 30          |
| Bobwhite               |             | Eastern Meadowlark   | 5           |
| Kildeer                |             | Common Grackle       | 2           |
| Herring Gull           | 6           | Brown-headed Cowbird |             |
| Ring-billed Gull       | 12          | Northern Cardinal    | 38 20/8     |
| Gr. Black-backed Gull  | 3           | Purple Finch         |             |
| Mourning Dove          | 15          | House Finch          | 12 8/4      |
| Great Horned Owl       | 1           | Am. Goldfinch        | 12          |
| Barred Owl             |             | Ruf.-sided Towhee    | 4 3/1       |
| Belted Kingfisher      | 2           | Dark-eyed Junco      | 19 14/7     |
| Common Flicker         | 18 15/2     | Field Sparrow        |             |
| Pileated Woodpecker    | 2           | Wh.-throated Sparrow |             |
| Y.-bellied Sapsucker   | 6 4h        | Swamp Sparrow        | 25 19/6 14  |
| Hairy Woodpecker       | 5           | Song Sparrow         | 46          |
| Downy Woodpecker       | 12 8/4      | Cow sp.              | 3           |
| Red-bellied Woodpecker | 16 12/4     | Gull sp.             | 6           |
| Common Crow            | 31 20/2     | Brown Thrasher       | 1           |
| Fish Crow              | 1           |                      |             |
| Blue Jay               | 22 20/2     |                      |             |

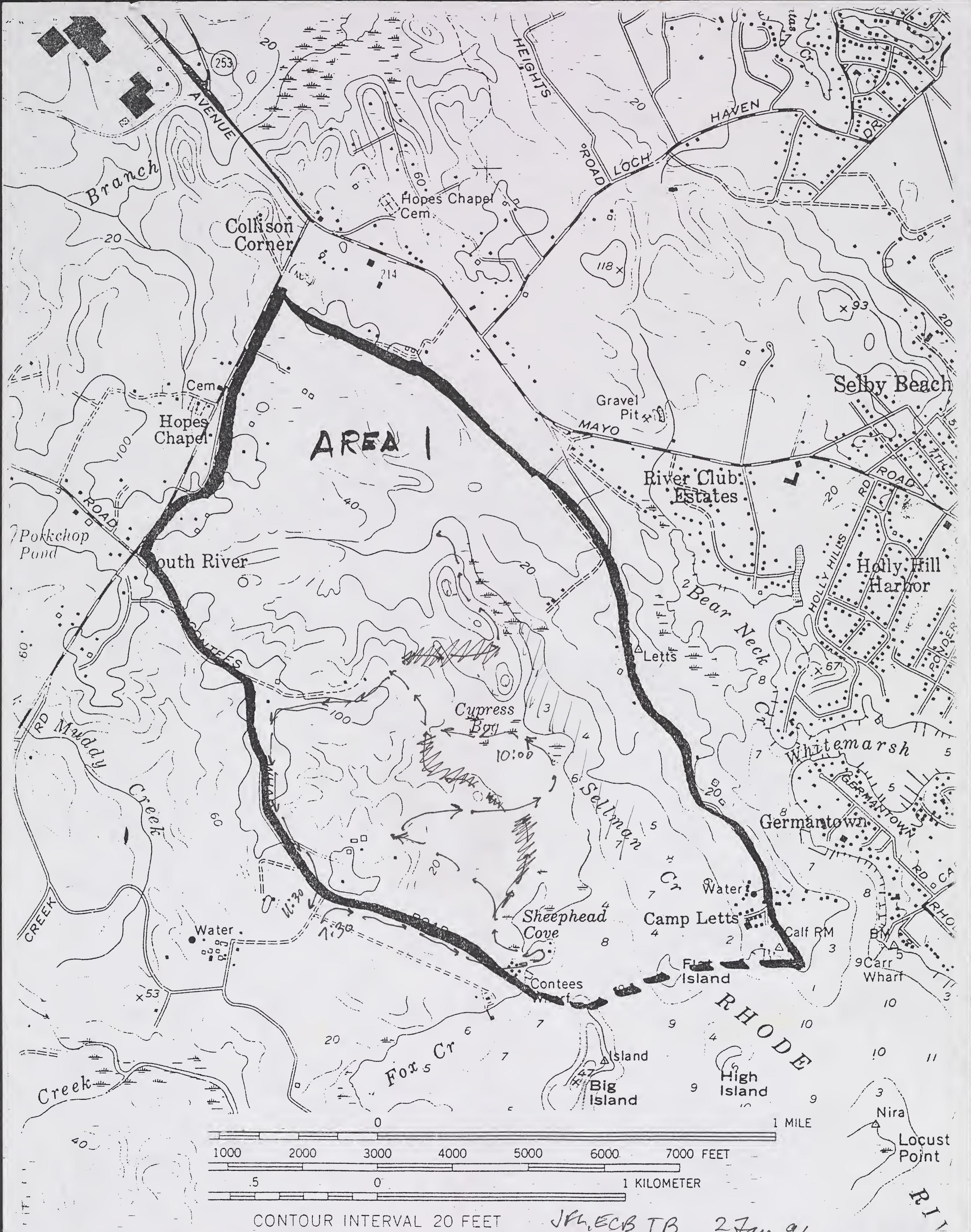
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## SERC Winter Bird Checklist

Observers VFL, ECR, TB

Date 2 Jan 94 Sector 1  
Party Size 3 Party Hrs 7  
Miles: Foot  Car  Boat  Total

Rare or sporadic at SERC in winter: Comm. Loon, Red-thr. Loon, Pied-b. grebe, Horned Grebe, Pintail, Am. Widgeon, Green-w. Teal, Cooper's Hawk, Am. Coot, Am. Woodcock, Comm. Snipe, Rock Dove, Semi-palmated Plover, Screech Owl, Red-headed Woodpecker, E. Phoebe, Evening Grosbeak, Pine Siskin, Wh.-crowned Sparrow, Fox Sparrow, Chipping Sparrow, Tree Sparrow



*Jim L  
for Ed. Belensky*

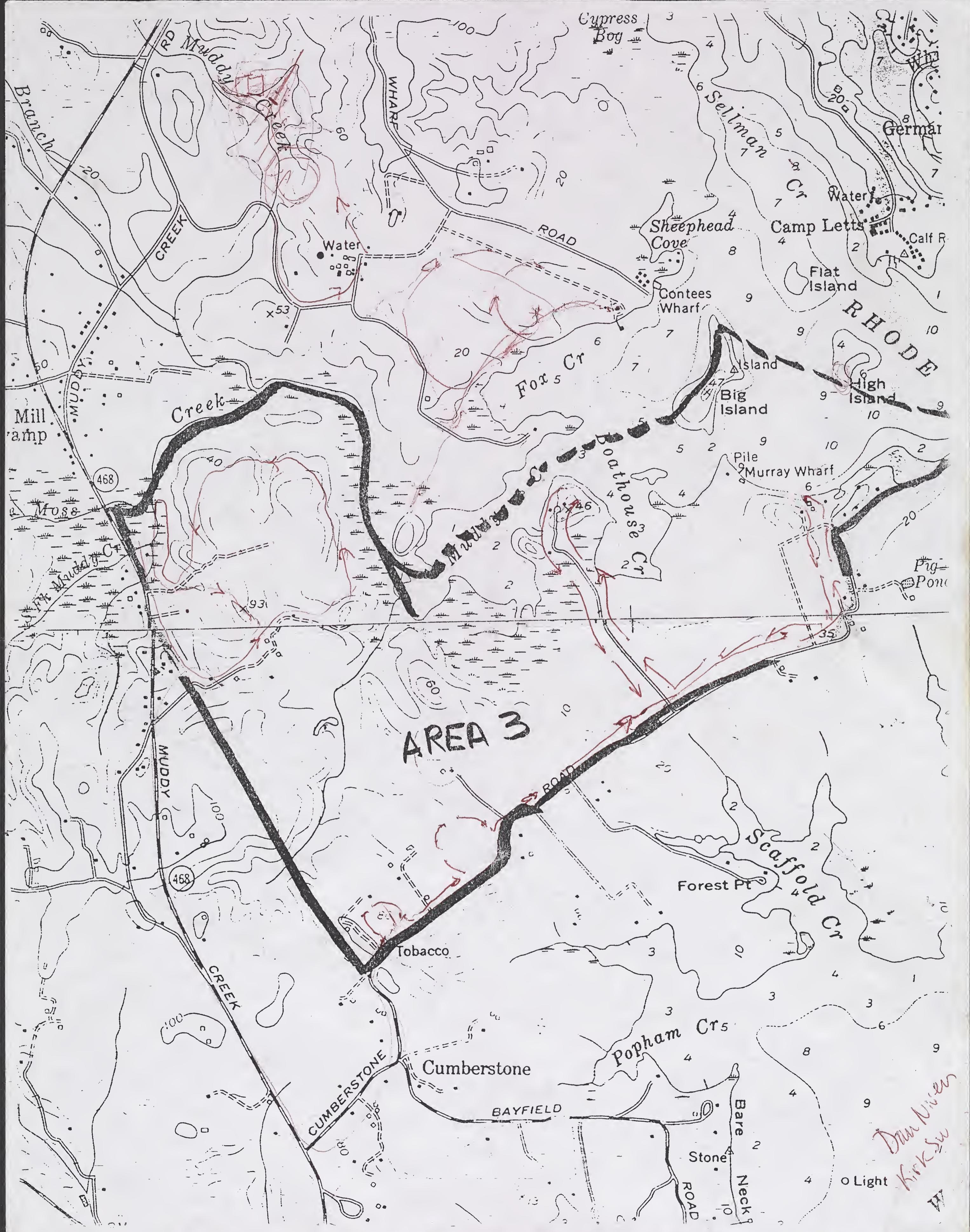
## GUIDELINES FOR BEHIND-THE-SCENES VOLUNTEERS PARTICIPATING ON FIELD PROJECTS

- ° It is imperative that the Behind-the-Scenes Volunteer Program be advised of a volunteer's intent to work on a field project.
- ° The following forms must be completed and returned to the Behind-the-Scenes Volunteer Program prior to the volunteer's departure for the field project:

"Registration Form for Volunteer Field Project" (to be completed by the volunteer). The registration form must include the volunteer's duties while in the field, the volunteer's business/volunteer experience and special skills relative to the field project, the exact duration (excluding travel time to and from the field project location), and the name of the Smithsonian field supervisor.

"Project Description for Volunteers Working in the Field" (to be completed by the Smithsonian field supervisor). The project description must include the location of work, the exact duration (excluding travel time to and from the field project location), and the volunteer's business/volunteer experience and special skills relative to the field project. The department chairman's signature must be included on this form.

- ° A time and attendance sheet must be maintained by the volunteer while in the field and must be returned to the Behind-the-Scenes Volunteer Program upon completion of the project.
- ° The Office of the General Counsel advises that all volunteers must work under the direct supervision of Smithsonian paid staff.
- ° If you have any questions concerning these guidelines or need additional forms please contact the Behind-the-Scenes Volunteer Program at 357-2987.



Summary of SERC Winter Bird Counts (1983, 1989, 1990, 1991, 1992, 1993)

Total Individuals

| Species                      | '93   | '92 | '91 | '90   | '89   | '83 |
|------------------------------|-------|-----|-----|-------|-------|-----|
| 1. Common Loon               | 1     | 3   | 1   |       |       |     |
| 2. Great Blue Heron          | 8     | 4   | 1   | 4     | 8     | 3   |
| 3. Tundra Swan               | 20    | 85  | 2   | 131   | 68    | 52  |
| 4. Mute Swan                 |       | 2   |     |       |       |     |
| 5. Canada Goose              | 1,098 | 556 | 209 | 1,019 | 1,477 | 709 |
| 6. Mallard                   | 34    | 7   | 19  | 10    | 6     | 52  |
| 7. Black Duck                | 72    | 62  | 152 | 81    | 40    | 84  |
| 8. Wood Duck                 |       |     | 2   |       |       |     |
| 9. Redhead                   |       |     |     | 2     |       |     |
| 10. Canvasback               | 11    | 180 | 121 | 34    | 1,326 | 80  |
| 11. Lesser Scaup             | 3     | 1   |     |       |       |     |
| 12. Greater Scaup            |       | 101 |     |       |       |     |
| --. Scaup sp.                |       | 276 | 42  | 2     | 206   |     |
| 13. Ring-necked Duck         |       |     | 3   |       |       |     |
| 14. Common Goldeneye         | 4     | 60  | 3   |       |       | 62  |
| 15. Bufflehead               | 201   | 451 | 75  | 42    | 52    | 80  |
| 16. Ruddy Duck               | 4     |     |     |       | 88    | 1   |
| 17. Red-breasted Merganser   |       | 7   |     |       |       | 1   |
| 18. Hooded Merganser         | 6     |     |     |       |       |     |
| 19. Oldsquaw                 |       | 4   | 12  |       |       |     |
| 20. Turkey Vulture           | 19    | 16  | 16  | 39    | 25    | 44  |
| 21. Black Vulture            | 47    | 29  | 24  | 5     | 9     | 18  |
| 22. Bald Eagle               | 3     | 3   |     |       |       | 1   |
| 23. Sharp-shinned Hawk       | 2     | 1   |     |       | 1     | 3   |
| 24. Red-tailed Hawk          | 6     | 4   | 1   | 5     | 5     | 1   |
| 25. Red-shouldered Hawk      | 4     | 9   | 4   | 4     | 7     | 5   |
| 26. American Kestrel         | 2     | 1   | 3   | 4     | 1     | 1   |
| 27. Marsh Harrier            |       | 1   |     |       | 6     |     |
| 28. Bobwhite                 |       |     |     |       |       |     |
| 29. Virginia Rail            |       | 1   |     |       |       |     |
| 30. Killdeer                 | 1     |     |     | 9     | 4     | 15  |
| 31. Woodcock                 |       |     |     |       | 1     |     |
| 32. Herring Gull             | 8     | 13  | 3   | 10    | 80    | 9   |
| 33. Ring-billed Gull         | 31    | 194 | 6   | 23    | 2     | 22  |
| 34. Great Black-backed Gull  | 4     | 5   | 1   | 1     | 1     | 3   |
| 35. Mourning Dove            | 21    | 82  | 8   | 14    | 3     | 40  |
| 36. Great Horned Owl         | 1     | 1   |     |       |       | 1   |
| 37. Barred Owl               |       |     |     | 1     | 1     |     |
| 38. Barn Owl                 |       | 1   | 1   |       |       |     |
| 39. Belted Kingfisher        | 5     | 6   | 2   | 4     | 4     | 4   |
| 40. Common Flicker           | 41    | 52  | 25  | 40    | 39    | 51  |
| 41. Pileated Woodpecker      | 3     | 11  | 3   | 18    | 9     | 6   |
| 42. Red-bellied Woodpecker   | 33    | 52  | 14  | 23    | 47    | 71  |
| 43. Yellow-bellied Sapsucker | 7     | 8   | 5   | 11    | 10    | 6   |
| 44. Hairy Woodpecker         | 9     | 10  | 5   | 13    | 6     | 9   |
| 45. Downy Woodpecker         | 24    | 32  | 9   | 19    | 26    | 56  |

**Summary of SERC Winter Bird Counts (p.2)**

| Species                    | '93          | '92          | '91          | '90          | '89          | '83          |
|----------------------------|--------------|--------------|--------------|--------------|--------------|--------------|
| 46. Red-headed Woodpecker  |              |              | 3            |              | 1            |              |
| 47. Eastern Phoebe         |              | 1            | 1            |              | 2            |              |
| 48. Blue Jay               | 51           | 44           | 14           | 35           | 53           | 98           |
| 49. Common Crow            | 89           | 54           | 45           | 18           | 53           | 105          |
| 50. Fish Crow              | 3            |              |              | 2            | 1            |              |
| 51. Carolina Chickadee     | 58           | 101          | 36           | 87           | 56           | 171          |
| 52. Tufted Titmouse        | 38           | 41           | 18           | 43           | 43           | 63           |
| 53. White-br. Nuthatch     | 3            | 3            |              | 7            | 10           | 8            |
| 54. Red-breasted Nuthatch  |              |              |              |              | 2            |              |
| 55. Brown Creeper          | 4            | 8            | 1            | 10           | 8            | 11           |
| 56. Winter Wren            | 4            | 3            |              | 4            | 6            | 7            |
| 57. Carolina Wren          | 35           | 84           | 26           | 43           | 54           | 21           |
| 58. Marsh Wren             | 3            |              |              |              |              | 1            |
| 59. Northern Mockingbird   | 15           | 20           | 15           | 8            | 20           | 23           |
| 60. Gray Catbird           | 2            | 1            |              |              |              | 1            |
| 61. Brown Thrasher         | 2            | 3            | 2            |              |              |              |
| 62. American Robin         | 9            | 100          |              | 27           | 38           | 24           |
| 63. Hermit Thrush          | 4            | 26           |              | 1            | 13           | 2            |
| 64. Eastern Bluebird       | 35           | 17           | 3            | 44           | 16           | 15           |
| 65. Golden-crowned Kinglet | 20           | 7            | 9            | 17           | 22           | 12           |
| 66. Ruby-crowned Kinglet   |              | 3            | 1            | 1            | 3            | 5            |
| 67. Cedar Waxwing          | 22           | 17           | 15           | 76           | 18           | 53           |
| 68. European Starling      | 133          | 267          | 476          | 122          | 11           | 301          |
| 69. Yellow-rumped Warbler  | 6            | 35           | 15           | 58           | 42           | 54           |
| 70. House Sparrow          | 5            | 42           | 4            | 37           | 10           | 109          |
| 71. Red-winged Blackbird   | 40           | 68           | 901          | 110          | 1            | 113          |
| 72. Eastern Meadowlark     | 5            | 12           |              |              | 15           |              |
| 73. Common Grackle         | 2            | 2            | 900          | 329          |              |              |
| 74. Brown-headed Cowbird   |              |              |              | 3            |              | 1            |
| 75. Northern Cardinal      | 69           | 100          | 50           | 78           | 137          | 139          |
| 76. Purple Finch           |              | 1            |              | 34           |              | 7            |
| 77. House Finch            | 13           | 17           | 1            | 7            |              |              |
| 78. American Goldfinch     | 18           | 125          | 17           | 9            | 4            | 29           |
| 79. Rufous-sided Towhee    | 6            | 21           | 7            | 6            | 9            | 8            |
| 80. Dark-eyed Junco        | 99           | 144          | 31           | 91           | 148          | 215          |
| 81. Chipping Sparrow       |              |              |              | 1            |              |              |
| 82. Field Sparrow          | 36           | 53           | 9            | 17           | 6            | 10           |
| 83. White-throated Sparrow | 192          | 352          | 120          | 119          | 331          | 364          |
| 84. White-crowned Sparrow  | 1            |              |              |              | 1            |              |
| 85. Savannah Sparrow       | 1            |              |              |              |              |              |
| 86. Swamp Sparrow          | 25           | 20           | 5            | 5            | 1            | 26           |
| 87. Song Sparrow           | 64           | 34           | 28           | 44           | 54           | 55           |
| 88. Fox Sparrow            |              |              |              |              | 1            |              |
| <b>Year</b>                | <b>1993</b>  | <b>1992</b>  | <b>1991</b>  | <b>1990</b>  | <b>1989</b>  | <b>1983</b>  |
| <b>Total Species</b>       | <b>68</b>    | <b>70</b>    | <b>57</b>    | <b>60</b>    | <b>65</b>    | <b>61</b>    |
| <b>Total Individuals</b>   | <b>2,845</b> | <b>4,215</b> | <b>3,508</b> | <b>3,053</b> | <b>4,768</b> | <b>3,522</b> |



## MEMORANDUM

TO : Participants and near-participants in the "1993" SERC winter bird count

FROM : Jim Lynch 

RE : Results of the count

DATE : 3 January 1994

This winter's count took place between 07:30 and 16:45 hrs on Sunday, 2 January 1994. After a week of snow and unseasonably cold temperatures that began on Christmas night, Sunday's weather proved excellent. Rain the previous evening had washed away much of the snow deposited by earlier storms, and early morning temperatures were just below freezing under partly cloudy skies. Some snow remained on the ground in sheltered areas, but depth was generally less than 2 inches. Most waterways were frozen, resulting in unusually low counts for ducks. The weather steadily warmed over the course of the count, reaching a high of ca. 50° F by mid-afternoon. Cloud cover fluctuated repeatedly from bright sunshine to overcast.

Volunteer turnout was light this year, with only 10 participants on hand. As in previous years, we split into four groups, each of which searched a different section of the lower Rhode River watershed (i.e., the area east of Muddy Creek Road between Camp Letts and Ivy Neck, including adjacent waterways). The SERC count area encompasses approximately 70 km<sup>2</sup>, about 5% of the size of "standard" 1,810 km<sup>2</sup> Audubon Christmas count circles.

Despite the low turnout, the count yielded a near-record 68 species (70 species is the all-time record species total, reached last year with 17 people counting). We tallied three species that had never turned up on previous SERC winter counts (Hooded Merganser, Loggerhead Shrike, Savannah Sparrow), and repeated last year's records for several species that hadn't been encountered on SERC winter counts since the mid 1980's (Bald Eagle, Great Horned Owl, Gray Catbird). As usual, a few species known to be present in the count area (e.g., Bobwhite, Barred Owl) were missed, but overall the coverage this year was surprisingly good.

Thanks for making this year's count such a success. I hope to see all of you again for next year's effort!

cc: Ed Balinsky, Antonia Bava, Maria Coughlin, Liza Hamill, Mark Lynch, Ray Madden, Dan Niven, Ana Spector, Kirk Swenson, Greg Ruiz,

**Results of 1992 SERC winter bird count (count conducted 10 Jan 1993)**

Number of observers: 10    Number of parties: 4    Party/hours: ca. 22    Km on foot: ca. 30  
Km in car: ca. 15    Total km: ca. 45    Weather: Partly cloudy to sunny; Temp: 30-50° F; Wind: calm to light; Discontinuous cover of soft snow (depth < 2 in.); creeks and inlets frozen  
Survey sectors: 1 - Camp Letts S. to Contee's Wharf Rd; 2 - Contee's Wharf Road S. to Muddy Cr.; 3 - Muddy Cr. S. to Cumberstone Rd.; 4 - Cumberstone Rd. S. to West R.

| Species                      | No. of individuals in sector |    |     |     | Total Indiv. |
|------------------------------|------------------------------|----|-----|-----|--------------|
|                              | 1                            | 2  | 3   | 4   |              |
| 1. Common Loon               |                              |    |     | 1   | 1            |
| 2. Great Blue Heron          | 3                            | 3  | 1   | 1   | 8            |
| 3. Tundra Swan               | 6                            |    | 10  | 4   | 20           |
| 4. Canada Goose              | 874                          | 50 | 150 | 9   | 1093         |
| 5. Mallard                   | 5                            | 2  | 25  | 2   | 34           |
| 6. Black Duck                | 22                           | 5  | 40  | 5   | 72           |
| 7. Canvasback                |                              |    |     | 11  | 11           |
| 8. Lesser Scaup              |                              |    |     | 3   | 3            |
| 9. Common Goldeneye          | 1                            |    | 1   | 2   | 4            |
| 10. Bufflehead               | 48                           | 1  | 19  | 133 | 201          |
| 11. Ruddy Duck               |                              |    |     | 4   | 4            |
| 12. Hooded Merganser         |                              |    |     | 6   | 6            |
| 13. Turkey Vulture           | 3                            | 6  | 5   | 3   | 17           |
| 14. Black Vulture            | 9                            | 27 | 11  |     | 47           |
| 15. Bald Eagle               |                              |    |     | 3   | 3            |
| 16. Sharp-shinned Hawk       |                              | 1  | 1   |     | 2            |
| 17. Red-tailed Hawk          | 1                            |    | 3   | 2   | 6            |
| 18. Red-should. Hawk         | 2                            | 2  |     |     | 4            |
| 19. American Kestrel         | 1                            |    | 1   |     | 2            |
| 20. Killdeer                 |                              |    |     | 1   | 1            |
| 21. Herring Gull             | 3                            | 5  |     | 5   | 13           |
| 22. Ring-billed Gull         | 18                           | 1  | 12  |     | 31           |
| 23. Gr. Black-b. Gull        |                              |    | 3   | 1   | 4            |
| 24. Mourning Dove            | 6                            |    | 15  |     | 21           |
| 25. Great Horned Owl         |                              |    | 1   |     | 1            |
| 26. Belted Kingfisher        | 2                            | 1  | 2   |     | 5            |
| 27. Common Flicker           | 20                           | 2  | 15  | 4   | 41           |
| 28. Pileat. Woodpecker       | 1                            |    | 2   |     | 3            |
| 29. Yellow-bellied Sapsucker | 1                            | 2  | 4   |     | 7            |
| 30. Hairy Woodpecker         | 1                            | 3  | 5   | 1   | 10           |
| 31. Downy Woodpecker         | 9                            | 7  | 8   |     | 24           |
| 32. Red-bellied Woodpecker   | 8                            | 7  | 12  | 6   | 33           |
| 33. Common Crow              | 23                           | 2  | 29  | 35  | 89           |
| 34. Fish Crow                | 2                            |    | 1   |     | 3            |
| 35. Blue Jay                 | 16                           | 3  | 20  | 12  | 51           |
| 36. Loggerhead Shrike        |                              |    |     | 1   | 1            |
| 37. Carolina Chickadee       | 23                           | 8  | 20  | 7   | 58           |
| 38. Tufted Titmouse          | 12                           | 6  | 14  | 6   | 38           |

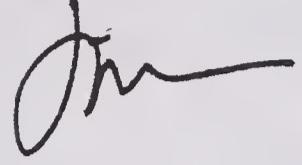
Results of 1992 SERC winter bird count (continued - p.2)

| Species                | No. of individuals in sector |    |     |    | Total Indiv. |
|------------------------|------------------------------|----|-----|----|--------------|
|                        | 1                            | 2  | 3   | 4  |              |
| 39. White-br. Nuthatch |                              | 2  | 1   |    | 3            |
| 40. Brown Creeper      |                              | 1  | 1   | 2  | 4            |
| 41. Carolina Wren      | 10                           | 4  | 19  | 2  | 35           |
| 42. Marsh Wren         |                              |    | 3   |    | 3            |
| 43. Winter Wren        |                              | 1  |     | 3  | 4            |
| 44. N. Mockingbird     | 5                            | 2  | 4   | 4  | 15           |
| 45. Gray Catbird       |                              |    |     | 2  | 2            |
| 46. Brown Thrasher     |                              |    | 1   | 1  | 2            |
| 47. American Robin     | 6                            | 1  | 1   | 1  | 9            |
| 48. Hermit Thrush      |                              |    | 3   | 1  | 4            |
| 49. Eastern Bluebird   | 9                            |    | 1   | 25 | 35           |
| 50. Golden-cr. Kinglet | 4                            | 6  | 8   | 2  | 20           |
| 51. Cedar Waxwing      |                              |    | 19  | 3  | 22           |
| 52. European Starling  | 24                           | 7  | 95  | 7  | 133          |
| 53. Y.-rumped Warbler  | 6                            | 1  | 1   | 1  | 9            |
| 54. House Sparrow      |                              |    | 5   |    | 5            |
| 55. Red-w. Blackbird   | 10                           |    | 30  |    | 40           |
| 56. E. Meadowlark      |                              |    | 5   |    | 5            |
| 57. Common Grackle     |                              |    | 2   |    | 2            |
| 58. N. Cardinal        | 12                           | 12 | 30  | 15 | 69           |
| 59. House Finch        | 1                            | 4  | 8   |    | 13           |
| 60. American Goldfinch | 3                            | 2  | 12  | 1  | 18           |
| 61. Rufous-s. Towhee   | 2                            | 1  | 3   |    | 6            |
| 62. Dark-eyed Junco    | 79                           | 7  | 12  | 1  | 99           |
| 63. Field Sparrow      | 10                           |    |     | 26 | 36           |
| 64. White-thr. Sparrow | 24                           | 25 | 140 | 3  | 192          |
| 65. Wh.-cr. Sparrow    |                              |    |     | 1  | 1            |
| 66. Swamp Sparrow      |                              | 6  | 19  |    | 25           |
| 67. Song Sparrow       | 6                            | 10 | 36  | 12 | 64           |
| 68. Savannah Sparrow   |                              |    |     | 1  | 1            |
| Number of species      | 43                           | 37 | 54  | 46 | 68           |



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RE : Results of the count

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Thanks for making this year's count such a success. I hope to see all of you again for next year's effort!

cc: Ed Balinsky, Antonia Bava, Maria Coughlin, Liza Hamill, Mark Lynch, Ray Madden, Dan Niven, Ana Spector, Kirk Swenson, Greg Ruiz,

Results of 1992 SERC winter bird count (count conducted 10 Jan 1993)

Number of observers: 10    Number of parties: 4    Party/hours: ca. 22    Km on foot: ca. 30  
Km in car: ca. 15    Total km: ca. 45    Weather: Partly cloudy to sunny; Temp: 30-50° F; Wind: calm to light; Discontinuous cover of soft snow (depth < 2 in.); creeks and inlets frozen  
Survey sectors: 1 - Camp Letts S. to Contee's Wharf Rd; 2 - Contee's Wharf Road S. to Muddy Cr.; 3 - Muddy Cr. S. to Cumberstone Rd.; 4 - Cumberstone Rd. S. to West R.

| Species                      | No. of individuals in sector |    |     |     | Total Indiv. |
|------------------------------|------------------------------|----|-----|-----|--------------|
|                              | 1                            | 2  | 3   | 4   |              |
| 1. Common Loon               |                              |    |     | 1   | 1            |
| 2. Great Blue Heron          | 3                            | 3  | 1   | 1   | 8            |
| 3. Tundra Swan               | 6                            |    | 10  | 4   | 20           |
| 4. Canada Goose              | 874                          | 50 | 150 | 9   | 1093         |
| 5. Mallard                   | 5                            | 2  | 25  | 2   | 34           |
| 6. Black Duck                | 22                           | 5  | 40  | 5   | 72           |
| 7. Canvasback                |                              |    |     | 11  | 11           |
| 8. Lesser Scaup              |                              |    |     | 3   | 3            |
| 9. Common Goldeneye          | 1                            |    | 1   | 2   | 4            |
| 10. Bufflehead               | 48                           | 1  | 19  | 133 | 201          |
| 11. Ruddy Duck               |                              |    |     | 4   | 4            |
| 12. Hooded Merganser         |                              |    |     | 6   | 6            |
| 13. Turkey Vulture           | 3                            | 6  | 5   | 3   | 17           |
| 14. Black Vulture            | 9                            | 27 | 11  |     | 47           |
| 15. Bald Eagle               |                              |    |     | 3   | 3            |
| 16. Sharp-shinned Hawk       |                              | 1  | 1   |     | 2            |
| 17. Red-tailed Hawk          | 1                            |    | 3   | 2   | 6            |
| 18. Red-should. Hawk         | 2                            | 2  |     |     | 4            |
| 19. American Kestrel         | 1                            |    | 1   |     | 2            |
| 20. Killdeer                 |                              |    |     | 1   | 1            |
| 21. Herring Gull             | 3                            | 5  |     | 5   | 13           |
| 22. Ring-billed Gull         | 18                           | 1  | 12  |     | 31           |
| 23. Gr. Black-b. Gull        |                              |    | 3   | 1   | 4            |
| 24. Mourning Dove            | 6                            |    | 15  |     | 21           |
| 25. Great Horned Owl         |                              |    | 1   |     | 1            |
| 26. Belted Kingfisher        | 2                            | 1  | 2   |     | 5            |
| 27. Common Flicker           | 20                           | 2  | 15  | 4   | 41           |
| 28. Pileat. Woodpecker       | 1                            |    | 2   |     | 3            |
| 29. Yellow-bellied Sapsucker | 1                            | 2  | 4   |     | 7            |
| 30. Hairy Woodpecker         | 1                            | 3  | 5   | 1   | 10           |
| 31. Downy Woodpecker         | 9                            | 7  | 8   |     | 24           |
| 32. Red-bellied Woodpecker   | 8                            | 7  | 12  | 6   | 33           |
| 33. Common Crow              | 23                           | 2  | 29  | 35  | 89           |
| 34. Fish Crow                | 2                            |    | 1   |     | 3            |
| 35. Blue Jay                 | 16                           | 3  | 20  | 12  | 51           |
| 36. Loggerhead Shrike        |                              |    |     | 1   | 1            |
| 37. Carolina Chickadee       | 23                           | 8  | 20  | 7   | 58           |
| 38. Tufted Titmouse          | 12                           | 6  | 14  | 6   | 38           |

Results of 1992 SERC winter bird count (continued - p.2)

| Species                | No. of individuals in sector |    |     |    | Total Indiv. |
|------------------------|------------------------------|----|-----|----|--------------|
|                        | 1                            | 2  | 3   | 4  |              |
| 39. White-br. Nuthatch |                              | 2  | 1   |    | 3            |
| 40. Brown Creeper      |                              | 1  | 1   | 2  | 4            |
| 41. Carolina Wren      | 10                           | 4  | 19  | 2  | 35           |
| 42. Marsh Wren         |                              |    | 3   |    | 3            |
| 43. Winter Wren        |                              | 1  |     | 3  | 4            |
| 44. N. Mockingbird     | 5                            | 2  | 4   | 4  | 15           |
| 45. Gray Catbird       |                              |    |     | 2  | 2            |
| 46. Brown Thrasher     |                              |    | 1   | 1  | 2            |
| 47. American Robin     | 6                            | 1  | 1   | 1  | 9            |
| 48. Hermit Thrush      |                              |    | 3   | 1  | 4            |
| 49. Eastern Bluebird   | 9                            |    | 1   | 25 | 35           |
| 50. Golden-cr. Kinglet | 4                            | 6  | 8   | 2  | 20           |
| 51. Cedar Waxwing      |                              |    | 19  | 3  | 22           |
| 52. European Starling  | 24                           | 7  | 95  | 7  | 133          |
| 53. Y.-rumped Warbler  | 6                            | 1  | 1   | 1  | 9            |
| 54. House Sparrow      |                              |    | 5   |    | 5            |
| 55. Red-w. Blackbird   | 10                           |    | 30  |    | 40           |
| 56. E. Meadowlark      |                              |    | 5   |    | 5            |
| 57. Common Grackle     |                              |    | 2   |    | 2            |
| 58. N. Cardinal        | 12                           | 12 | 30  | 15 | 69           |
| 59. House Finch        | 1                            | 4  | 8   |    | 13           |
| 60. American Goldfinch | 3                            | 2  | 12  | 1  | 18           |
| 61. Rufous-s. Towhee   | 2                            | 1  | 3   |    | 6            |
| 62. Dark-eyed Junco    | 79                           | 7  | 12  | 1  | 99           |
| 63. Field Sparrow      | 10                           |    |     | 26 | 36           |
| 64. White-thr. Sparrow | 24                           | 25 | 140 | 3  | 192          |
| 65. Wh.-cr. Sparrow    |                              |    |     | 1  | 1            |
| 66. Swamp Sparrow      |                              | 6  | 19  |    | 25           |
| 67. Song Sparrow       | 6                            | 10 | 36  | 12 | 64           |
| 68. Savannah Sparrow   |                              |    |     | 1  | 1            |
| Number of species      | 43                           | 37 | 54  | 46 | 68           |

**Summary of SERC Winter Bird Counts (1983, 1989, 1990, 1991, 1992, 1993)**

Total Individuals

| Species                      | '93   | '92 | '91 | '90   | '89   | '83 |
|------------------------------|-------|-----|-----|-------|-------|-----|
| 1. Common Loon               | 1     | 3   | 1   |       |       |     |
| 2. Great Blue Heron          | 8     | 4   | 1   | 4     | 8     | 3   |
| 3. Tundra Swan               | 20    | 85  | 2   | 131   | 68    | 52  |
| 4. Mute Swan                 |       | 2   |     |       |       |     |
| 5. Canada Goose              | 1,098 | 556 | 209 | 1,019 | 1,477 | 709 |
| 6. Mallard                   | 34    | 7   | 19  | 10    | 6     | 52  |
| 7. Black Duck                | 72    | 62  | 152 | 81    | 40    | 84  |
| 8. Wood Duck                 |       |     | 2   |       |       |     |
| 9. Redhead                   |       |     |     | 2     |       |     |
| 10. Canvasback               | 11    | 180 | 121 | 34    | 1,326 | 80  |
| 11. Lesser Scaup             | 3     | 1   |     |       |       |     |
| 12. Greater Scaup            |       | 101 |     |       |       |     |
| --. Scaup sp.                |       | 276 | 42  | 2     | 206   |     |
| 13. Ring-necked Duck         |       |     | 3   |       |       |     |
| 14. Common Goldeneye         | 4     | 60  | 3   |       |       | 62  |
| 15. Bufflehead               | 201   | 451 | 75  | 42    | 52    | 80  |
| 16. Ruddy Duck               | 4     |     |     |       | 88    | 1   |
| 17. Red-breasted Merganser   |       | 7   |     |       |       | 1   |
| 18. Hooded Merganser         | 6     |     |     |       |       |     |
| 19. Oldsquaw                 |       | 4   | 12  |       |       |     |
| 20. Turkey Vulture           | 19    | 16  | 16  | 39    | 25    | 44  |
| 21. Black Vulture            | 47    | 29  | 24  | 5     | 9     | 18  |
| 22. Bald Eagle               | 3     | 3   |     |       |       | 1   |
| 23. Sharp-shinned Hawk       | 2     | 1   |     |       | 1     | 3   |
| 24. Red-tailed Hawk          | 6     | 4   | 1   | 5     | 5     | 1   |
| 25. Red-shouldered Hawk      | 4     | 9   | 4   | 4     | 7     | 5   |
| 26. American Kestrel         | 2     | 1   | 3   | 4     | 1     | 1   |
| 27. Marsh Harrier            |       | 1   |     |       |       |     |
| 28. Bobwhite                 |       |     |     |       | 6     |     |
| 29. Virginia Rail            |       | 1   |     |       |       |     |
| 30. Killdeer                 | 1     |     |     | 9     | 4     | 15  |
| 31. Woodcock                 |       |     |     |       | 1     |     |
| 32. Herring Gull             | 8     | 13  | 3   | 10    | 80    | 9   |
| 33. Ring-billed Gull         | 31    | 194 | 6   | 23    | 2     | 22  |
| 34. Great Black-backed Gull  | 4     | 5   | 1   | 1     | 1     | 3   |
| 35. Mourning Dove            | 21    | 82  | 8   | 14    | 3     | 40  |
| 36. Great Horned Owl         | 1     | 1   |     |       |       | 1   |
| 37. Barred Owl               |       |     |     | 1     | 1     |     |
| 38. Barn Owl                 |       | 1   | 1   |       |       |     |
| 39. Belted Kingfisher        | 5     | 6   | 2   | 4     | 4     | 4   |
| 40. Common Flicker           | 41    | 52  | 25  | 40    | 39    | 51  |
| 41. Pileated Woodpecker      | 3     | 11  | 3   | 18    | 9     | 6   |
| 42. Red-bellied Woodpecker   | 33    | 52  | 14  | 23    | 47    | 71  |
| 43. Yellow-bellied Sapsucker | 7     | 8   | 5   | 11    | 10    | 6   |
| 44. Hairy Woodpecker         | 9     | 10  | 5   | 13    | 6     | 9   |
| 45. Downy Woodpecker         | 24    | 32  | 9   | 19    | 26    | 56  |

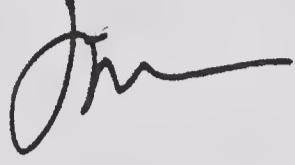
**Summary of SERC Winter Bird Counts (p.2)**

| Species                    | '93   | '92   | '91   | '90   | '89   | '83   |
|----------------------------|-------|-------|-------|-------|-------|-------|
| 46. Red-headed Woodpecker  |       |       | 3     |       | 1     |       |
| 47. Eastern Phoebe         |       | 1     | 1     |       | 2     |       |
| 48. Blue Jay               | 51    | 44    | 14    | 35    | 53    | 98    |
| 49. Common Crow            | 89    | 54    | 45    | 18    | 53    | 105   |
| 50. Fish Crow              | 3     |       |       | 2     | 1     |       |
| 51. Carolina Chickadee     | 58    | 101   | 36    | 87    | 56    | 171   |
| 52. Tufted Titmouse        | 38    | 41    | 18    | 43    | 43    | 63    |
| 53. White-br. Nuthatch     | 3     | 3     |       | 7     | 10    | 8     |
| 54. Red-breasted Nuthatch  |       |       |       |       | 2     |       |
| 55. Brown Creeper          | 4     | 8     | 1     | 10    | 8     | 11    |
| 56. Winter Wren            | 4     | 3     |       | 4     | 6     | 7     |
| 57. Carolina Wren          | 35    | 84    | 26    | 43    | 54    | 21    |
| 58. Marsh Wren             | 3     |       |       |       |       | 1     |
| 59. Northern Mockingbird   | 15    | 20    | 15    | 8     | 20    | 23    |
| 60. Gray Catbird           | 2     | 1     |       |       |       | 1     |
| 61. Brown Thrasher         | 2     | 3     | 2     |       |       |       |
| 62. American Robin         | 9     | 100   |       | 27    | 38    | 24    |
| 63. Hermit Thrush          | 4     | 26    |       | 1     | 13    | 2     |
| 64. Eastern Bluebird       | 35    | 17    | 3     | 44    | 16    | 15    |
| 65. Golden-crowned Kinglet | 20    | 7     | 9     | 17    | 22    | 12    |
| 66. Ruby-crowned Kinglet   |       | 3     | 1     | 1     | 3     | 5     |
| 67. Cedar Waxwing          | 22    | 17    | 15    | 76    | 18    | 53    |
| 68. European Starling      | 133   | 267   | 476   | 122   | 11    | 301   |
| 69. Yellow-rumped Warbler  | 6     | 35    | 15    | 58    | 42    | 54    |
| 70. House Sparrow          | 5     | 42    | 4     | 37    | 10    | 109   |
| 71. Red-winged Blackbird   | 40    | 68    | 901   | 110   | 1     | 113   |
| 72. Eastern Meadowlark     | 5     | 12    |       |       | 15    |       |
| 73. Common Grackle         | 2     | 2     | 900   | 329   |       |       |
| 74. Brown-headed Cowbird   |       |       |       | 3     |       | 1     |
| 75. Northern Cardinal      | 69    | 100   | 50    | 78    | 137   | 139   |
| 76. Purple Finch           |       | 1     |       | 34    |       | 7     |
| 77. House Finch            | 13    | 17    | 1     | 7     |       |       |
| 78. American Goldfinch     | 18    | 125   | 17    | 9     | 4     | 29    |
| 79. Rufous-sided Towhee    | 6     | 21    | 7     | 6     | 9     | 8     |
| 80. Dark-eyed Junco        | 99    | 144   | 31    | 91    | 148   | 215   |
| 81. Chipping Sparrow       |       |       |       | 1     |       |       |
| 82. Field Sparrow          | 36    | 53    | 9     | 17    | 6     | 10    |
| 83. White-throated Sparrow | 192   | 352   | 120   | 119   | 331   | 364   |
| 84. White-crowned Sparrow  | 1     |       |       |       | 1     |       |
| 85. Savannah Sparrow       | 1     |       |       |       |       |       |
| 86. Swamp Sparrow          | 25    | 20    | 5     | 5     | 1     | 26    |
| 87. Song Sparrow           | 64    | 34    | 28    | 44    | 54    | 55    |
| 88. Fox Sparrow            |       |       |       |       | 1     |       |
| <hr/>                      |       |       |       |       |       |       |
| Year                       | 1993  | 1992  | 1991  | 1990  | 1989  | 1983  |
| Total Species              | 68    | 70    | 57    | 60    | 65    | 61    |
| Total Individuals          | 2,845 | 4,215 | 3,508 | 3,053 | 4,768 | 3,522 |



MEMORANDUM

TO : Participants and near-participants in the "1993" SERC winter bird count

FROM : Jim Lynch 

RE : Results of the count

DATE : 3 January 1994

This winter's count took place between 07:30 and 16:45 hrs on Sunday, 2 January 1994. After a week of snow and unseasonably cold temperatures that began on Christmas night, Sunday's weather proved excellent. Rain the previous evening had washed away much of the snow deposited by earlier storms, and early morning temperatures were just below freezing under partly cloudy skies. Some snow remained on the ground in sheltered areas, but depth was generally less than 2 inches. Most waterways were frozen, resulting in unusually low counts for ducks. The weather steadily warmed over the course of the count, reaching a high of ca. 50° F by mid-afternoon. Cloud cover fluctuated repeatedly from bright sunshine to overcast.

Volunteer turnout was light this year, with only 10 participants on hand. As in previous years, we split into four groups, each of which searched a different section of the lower Rhode River watershed (i.e., the area east of Muddy Creek Road between Camp Letts and Ivy Neck, including adjacent waterways). The SERC count area encompasses approximately 70 km<sup>2</sup>, about 5% of the size of "standard" 1,810 km<sup>2</sup> Audubon Christmas count circles.

Despite the low turnout, the count yielded a near-record 68 species (70 species is the all-time record species total, reached last year with 17 people counting). We tallied three species that had never turned up on previous SERC winter counts (Hooded Merganser, Loggerhead Shrike, Savannah Sparrow), and repeated last year's records for several species that hadn't been encountered on SERC winter counts since the mid 1980's (Bald Eagle, Great Horned Owl, Gray Catbird). As usual, a few species known to be present in the count area (e.g., Bobwhite, Barred Owl) were missed, but overall the coverage this year was surprisingly good.

Thanks for making this year's count such a success. I hope to see all of you again for next year's effort!

cc: Ed Balinsky, Antonia Bava, Maria Coughlin, Liza Hamill, Mark Lynch, Ray Madden, Dan Niven, Ana Spector, Kirk Swenson, Greg Ruiz,

Results of 1992 SERC winter bird count (count conducted 10 Jan 1993)

Number of observers: 10    Number of parties: 4    Party/hours: ca. 22    Km on foot: ca. 30  
Km in car: ca. 15    Total km: ca. 45    Weather: Partly cloudy to sunny; Temp: 30-50° F; Wind:  
calm to light; Discontinuous cover of soft snow (depth < 2 in.); creeks and inlets frozen  
Survey sectors: 1 - Camp Letts S. to Contee's Wharf Rd; 2 - Contee's Wharf Road S. to Muddy  
Cr.; 3 - Muddy Cr. S. to Cumberstone Rd.; 4 - Cumberstone Rd. S. to West R.

| Species                      | No. of individuals in sector |    |     |     | Total Indiv. |
|------------------------------|------------------------------|----|-----|-----|--------------|
|                              | 1                            | 2  | 3   | 4   |              |
| 1. Common Loon               |                              |    |     | 1   | 1            |
| 2. Great Blue Heron          | 3                            | 3  | 1   | 1   | 8            |
| 3. Tundra Swan               | 6                            |    | 10  | 4   | 20           |
| 4. Canada Goose              | 874                          | 50 | 150 | 9   | 1093         |
| 5. Mallard                   | 5                            | 2  | 25  | 2   | 34           |
| 6. Black Duck                | 22                           | 5  | 40  | 5   | 72           |
| 7. Canvasback                |                              |    |     | 11  | 11           |
| 8. Lesser Scaup              |                              |    |     | 3   | 3            |
| 9. Common Goldeneye          | 1                            |    | 1   | 2   | 4            |
| 10. Bufflehead               | 48                           | 1  | 19  | 133 | 201          |
| 11. Ruddy Duck               |                              |    |     | 4   | 4            |
| 12. Hooded Merganser         |                              |    |     | 6   | 6            |
| 13. Turkey Vulture           | 3                            | 6  | 5   | 3   | 17           |
| 14. Black Vulture            | 9                            | 27 | 11  |     | 47           |
| 15. Bald Eagle               |                              |    |     | 3   | 3            |
| 16. Sharp-shinned Hawk       |                              | 1  | 1   |     | 2            |
| 17. Red-tailed Hawk          | 1                            |    | 3   | 2   | 6            |
| 18. Red-should. Hawk         | 2                            | 2  |     |     | 4            |
| 19. American Kestrel         | 1                            |    | 1   |     | 2            |
| 20. Kildeer                  |                              |    |     | 1   | 1            |
| 21. Herring Gull             | 3                            | 5  |     | 5   | 13           |
| 22. Ring-billed Gull         | 18                           | 1  | 12  |     | 31           |
| 23. Gr. Black-b. Gull        |                              |    | 3   | 1   | 4            |
| 24. Mourning Dove            | 6                            |    | 15  |     | 21           |
| 25. Great Horned Owl         |                              |    | 1   |     | 1            |
| 26. Belted Kingfisher        | 2                            | 1  | 2   |     | 5            |
| 27. Common Flicker           | 20                           | 2  | 15  | 4   | 41           |
| 28. Pileat. Woodpecker       | 1                            |    | 2   |     | 3            |
| 29. Yellow-bellied Sapsucker | 1                            | 2  | 4   |     | 7            |
| 30. Hairy Woodpecker         | 1                            | 3  | 5   | 1   | 10           |
| 31. Downy Woodpecker         | 9                            | 7  | 8   |     | 24           |
| 32. Red-bellied Woodpecker   | 8                            | 7  | 12  | 6   | 33           |
| 33. Common Crow              | 23                           | 2  | 29  | 35  | 89           |
| 34. Fish Crow                | 2                            |    | 1   |     | 3            |
| 35. Blue Jay                 | 16                           | 3  | 20  | 12  | 51           |
| 36. Loggerhead Shrike        |                              |    |     | 1   | 1            |
| 37. Carolina Chickadee       | 23                           | 8  | 20  | 7   | 58           |
| 38. Tufted Titmouse          | 12                           | 6  | 14  | 6   | 38           |

Results of 1992 SERC winter bird count (continued - p.2)

| Species                | No. of individuals in sector |    |     |    | Total Indiv. |
|------------------------|------------------------------|----|-----|----|--------------|
|                        | 1                            | 2  | 3   | 4  |              |
| 39. White-br. Nuthatch |                              | 2  | 1   |    | 3            |
| 40. Brown Creeper      |                              | 1  | 1   | 2  | 4            |
| 41. Carolina Wren      | 10                           | 4  | 19  | 2  | 35           |
| 42. Marsh Wren         |                              |    | 3   |    | 3            |
| 43. Winter Wren        |                              | 1  |     | 3  | 4            |
| 44. N. Mockingbird     | 5                            | 2  | 4   | 4  | 15           |
| 45. Gray Catbird       |                              |    |     | 2  | 2            |
| 46. Brown Thrasher     |                              |    | 1   | 1  | 2            |
| 47. American Robin     | 6                            | 1  | 1   | 1  | 9            |
| 48. Hermit Thrush      |                              |    | 3   | 1  | 4            |
| 49. Eastern Bluebird   | 9                            |    | 1   | 25 | 35           |
| 50. Golden-cr. Kinglet | 4                            | 6  | 8   | 2  | 20           |
| 51. Cedar Waxwing      |                              |    | 19  | 3  | 22           |
| 52. European Starling  | 24                           | 7  | 95  | 7  | 133          |
| 53. Y.-rumped Warbler  | 6                            | 1  | 1   | 1  | 9            |
| 54. House Sparrow      |                              |    | 5   |    | 5            |
| 55. Red-w. Blackbird   | 10                           |    | 30  |    | 40           |
| 56. E. Meadowlark      |                              |    | 5   |    | 5            |
| 57. Common Grackle     |                              |    | 2   |    | 2            |
| 58. N. Cardinal        | 12                           | 12 | 30  | 15 | 69           |
| 59. House Finch        | 1                            | 4  | 8   |    | 13           |
| 60. American Goldfinch | 3                            | 2  | 12  | 1  | 18           |
| 61. Rufous-s. Towhee   | 2                            | 1  | 3   |    | 6            |
| 62. Dark-eyed Junco    | 79                           | 7  | 12  | 1  | 99           |
| 63. Field Sparrow      | 10                           |    |     | 26 | 36           |
| 64. White-thr. Sparrow | 24                           | 25 | 140 | 3  | 192          |
| 65. Wh.-cr. Sparrow    |                              |    |     | 1  | 1            |
| 66. Swamp Sparrow      |                              | 6  | 19  |    | 25           |
| 67. Song Sparrow       | 6                            | 10 | 36  | 12 | 64           |
| 68. Savannah Sparrow   |                              |    |     | 1  | 1            |
| Number of species      | 43                           | 37 | 54  | 46 | 68           |

**Summary of SERC Winter Bird Counts (1983, 1989, 1990, 1991, 1992, 1993)**

Total Individuals

| Species                      | '93   | '92 | '91 | '90   | '89   | '83 |
|------------------------------|-------|-----|-----|-------|-------|-----|
| 1. Common Loon               | 1     | 3   | 1   |       |       |     |
| 2. Great Blue Heron          | 8     | 4   | 1   | 4     | 8     | 3   |
| 3. Tundra Swan               | 20    | 85  | 2   | 131   | 68    | 52  |
| 4. Mute Swan                 |       | 2   |     |       |       |     |
| 5. Canada Goose              | 1,098 | 556 | 209 | 1,019 | 1,477 | 709 |
| 6. Mallard                   | 34    | 7   | 19  | 10    | 6     | 52  |
| 7. Black Duck                | 72    | 62  | 152 | 81    | 40    | 84  |
| 8. Wood Duck                 |       |     | 2   |       |       |     |
| 9. Redhead                   |       |     |     | 2     |       |     |
| 10. Canvasback               | 11    | 180 | 121 | 34    | 1,326 | 80  |
| 11. Lesser Scaup             | 3     | 1   |     |       |       |     |
| 12. Greater Scaup            |       | 101 |     |       |       |     |
| --. Scaup sp.                |       | 276 | 42  | 2     | 206   |     |
| 13. Ring-necked Duck         |       |     | 3   |       |       |     |
| 14. Common Goldeneye         | 4     | 60  | 3   |       |       | 62  |
| 15. Bufflehead               | 201   | 451 | 75  | 42    | 52    | 80  |
| 16. Ruddy Duck               | 4     |     |     |       | 88    | 1   |
| 17. Red-breasted Merganser   |       | 7   |     |       |       | 1   |
| 18. Hooded Merganser         | 6     |     |     |       |       |     |
| 19. Oldsquaw                 |       | 4   | 12  |       |       |     |
| 20. Turkey Vulture           | 19    | 16  | 16  | 39    | 25    | 44  |
| 21. Black Vulture            | 47    | 29  | 24  | 5     | 9     | 18  |
| 22. Bald Eagle               | 3     | 3   |     |       |       | 1   |
| 23. Sharp-shinned Hawk       | 2     | 1   |     |       | 1     | 3   |
| 24. Red-tailed Hawk          | 6     | 4   | 1   | 5     | 5     | 1   |
| 25. Red-shouldered Hawk      | 4     | 9   | 4   | 4     | 7     | 5   |
| 26. American Kestrel         | 2     | 1   | 3   | 4     | 1     | 1   |
| 27. Marsh Harrier            |       | 1   |     |       | 6     |     |
| 28. Bobwhite                 |       |     |     |       |       |     |
| 29. Virginia Rail            |       | 1   |     |       |       |     |
| 30. Killdeer                 | 1     |     |     | 9     | 4     | 15  |
| 31. Woodcock                 |       |     |     |       | 1     |     |
| 32. Herring Gull             | 8     | 13  | 3   | 10    | 80    | 9   |
| --33. Ring-billed Gull       | 31    | 194 | 6   | 23    | 2     | 22  |
| 34. Great Black-backed Gull  | 4     | 5   | 1   | 1     | 1     | 3   |
| 35. Mourning Dove            | 21    | 82  | 8   | 14    | 3     | 40  |
| 36. Great Horned Owl         | 1     | 1   |     |       |       | 1   |
| 37. Barred Owl               |       |     |     | 1     | 1     |     |
| 38. Barn Owl                 |       | 1   | 1   |       |       |     |
| 39. Belted Kingfisher        | 5     | 6   | 2   | 4     | 4     | 4   |
| 40. Common Flicker           | 41    | 52  | 25  | 40    | 39    | 51  |
| 41. Pileated Woodpecker      | 3     | 11  | 3   | 18    | 9     | 6   |
| 42. Red-bellied Woodpecker   | 33    | 52  | 14  | 23    | 47    | 71  |
| 43. Yellow-bellied Sapsucker | 7     | 8   | 5   | 11    | 10    | 6   |
| 44. Hairy Woodpecker         | 9     | 10  | 5   | 13    | 6     | 9   |
| 45. Downy Woodpecker         | 24    | 32  | 9   | 19    | 26    | 56  |

**Summary of SERC Winter Bird Counts (p.2)**

| Species                    | '93          | '92          | '91          | '90          | '89          | '83          |
|----------------------------|--------------|--------------|--------------|--------------|--------------|--------------|
| 46. Red-headed Woodpecker  |              |              | 3            |              | 1            |              |
| 47. Eastern Phoebe         |              | 1            | 1            |              | 2            |              |
| 48. Blue Jay               | 51           | 44           | 14           | 35           | 53           | 98           |
| 49. Common Crow            | 89           | 54           | 45           | 18           | 53           | 105          |
| 50. Fish Crow              | 3            |              |              | 2            | 1            |              |
| 51. Carolina Chickadee     | 58           | 101          | 36           | 87           | 56           | 171          |
| 52. Tufted Titmouse        | 38           | 41           | 18           | 43           | 43           | 63           |
| 53. White-br. Nuthatch     | 3            | 3            |              | 7            | 10           | 8            |
| 54. Red-breasted Nuthatch  |              |              |              |              | 2            |              |
| 55. Brown Creeper          | 4            | 8            | 1            | 10           | 8            | 11           |
| 56. Winter Wren            | 4            | 3            |              | 4            | 6            | 7            |
| 57. Carolina Wren          | 35           | 84           | 26           | 43           | 54           | 21           |
| 58. Marsh Wren             | 3            |              |              |              |              | 1            |
| 59. Northern Mockingbird   | 15           | 20           | 15           | 8            | 20           | 23           |
| 60. Gray Catbird           | 2            | 1            |              |              |              | 1            |
| 61. Brown Thrasher         | 2            | 3            | 2            |              |              |              |
| 62. American Robin         | 9            | 100          |              | 27           | 38           | 24           |
| 63. Hermit Thrush          | 4            | 26           |              | 1            | 13           | 2            |
| 64. Eastern Bluebird       | 35           | 17           | 3            | 44           | 16           | 15           |
| 65. Golden-crowned Kinglet | 20           | 7            | 9            | 17           | 22           | 12           |
| 66. Ruby-crowned Kinglet   |              | 3            | 1            | 1            | 3            | 5            |
| 67. Cedar Waxwing          | 22           | 17           | 15           | 76           | 18           | 53           |
| 68. European Starling      | 133          | 267          | 476          | 122          | 11           | 301          |
| 69. Yellow-rumped Warbler  | 6            | 35           | 15           | 58           | 42           | 54           |
| 70. House Sparrow          | 5            | 42           | 4            | 37           | 10           | 109          |
| 71. Red-winged Blackbird   | 40           | 68           | 901          | 110          | 1            | 113          |
| 72. Eastern Meadowlark     | 5            | 12           |              |              | 15           |              |
| 73. Common Grackle         | 2            | 2            | 900          | 329          |              |              |
| 74. Brown-headed Cowbird   |              |              |              | 3            |              | 1            |
| 75. Northern Cardinal      | 69           | 100          | 50           | 78           | 137          | 139          |
| 76. Purple Finch           |              | 1            |              | 34           |              | 7            |
| 77. House Finch            | 13           | 17           | 1            | 7            |              |              |
| 78. American Goldfinch     | 18           | 125          | 17           | 9            | 4            | 29           |
| 79. Rufous-sided Towhee    | 6            | 21           | 7            | 6            | 9            | 8            |
| 80. Dark-eyed Junco        | 99           | 144          | 31           | 91           | 148          | 215          |
| 81. Chipping Sparrow       |              |              |              | 1            |              |              |
| 82. Field Sparrow          | 36           | 53           | 9            | 17           | 6            | 10           |
| 83. White-throated Sparrow | 192          | 352          | 120          | 119          | 331          | 364          |
| 84. White-crowned Sparrow  | 1            |              |              |              | 1            |              |
| 85. Savannah Sparrow       | 1            |              |              |              |              |              |
| 86. Swamp Sparrow          | 25           | 20           | 5            | 5            | 1            | 26           |
| 87. Song Sparrow           | 64           | 34           | 28           | 44           | 54           | 55           |
| 88. Fox Sparrow            |              |              |              |              | 1            |              |
| <b>Year</b>                | <b>1993</b>  | <b>1992</b>  | <b>1991</b>  | <b>1990</b>  | <b>1989</b>  | <b>1983</b>  |
| <b>Total Species</b>       | <b>68</b>    | <b>70</b>    | <b>57</b>    | <b>60</b>    | <b>65</b>    | <b>61</b>    |
| <b>Total Individuals</b>   | <b>2,845</b> | <b>4,215</b> | <b>3,508</b> | <b>3,053</b> | <b>4,768</b> | <b>3,522</b> |